

IN THE CLAIMS:

Claim 1 (currently amended) A refrigeration lubricant composition suitable for use in a refrigeration system with a refrigerant containing a hydrofluorocarbon and/or a hydrochlorofluorocarbon, comprising a synthetic lubricant containing a polyol ester and/or a polyalkylene glycol and an amphiphilic anti-deposition component which is anionic and contains a non-polar part to the molecule which contains a fluorocarbon group.

Claims 2-3 (canceled)

Claim 4 (original) A composition according to claim 1 in which the amphiphilic anti-deposition component is such that in the Dispersibility Test described herein, the phases of R134a and the total oil mixture separate after at least 10 seconds.

Claims 5-8 (canceled)

Claim 9 (currently amended) A composition according to claim 1 or claim 4 in which the anti-deposition component is present at a level of 0.001 to 5% based on the weight of the lubricant.

Claim 10 (currently amended) A composition according to claim 1 in which the lubricant comprises a compound of the general formula $\text{R}(\text{O}-\text{C}(\text{O})-\text{R}^1)_n$ (II):




wherein R is a hydrocarbon radical remaining after removing the hydroxyl groups from pentaerythritol, ~~dipentaerythritol~~ dipentaerythritol, tripentaerythritol, trimethylol ethane, trimethylol propane or neopentyl glycol, or the hydroxyl containing hydrocarbon radical remaining after removing a proportion of the hydroxyl groups from pentaerythritol, dipentaerythritol, tripentaerythritol, trimethylol ethane, trimethylol propane or neopentyl

glycol; each R^1 is, independently, H, a straight chain aliphatic hydrocarbyl group, a branched chain aliphatic hydrocarbyl group, an aliphatic hydrocarbyl group (~~linear or branched~~) containing a carboxylic acid or carboxylic acid ester substituent, provided that at least one R^1 group is a linear aliphatic hydrocarbyl group or branched aliphatic hydrocarbyl group; and n is an integer.

Claim 11 (original) A composition according to claim 10 in which the ester comprises an ester of pentaerythritol, dipentaerythritol and/or tri pentaerythritol and each R^1 is selected from a straight chain aliphatic hydrocarbyl group and a branched chain aliphatic hydrocarbyl group.

Claim 12 (canceled)

 Claim 13 (currently amended) A refrigerant composition comprising the refrigeration lubricant composition according to claim 1, and a refrigerant, in which the refrigerant comprises 1,1,1,2-tetrafluoroethane.

Claim 14 (currently amended) A refrigerant composition comprising the refrigeration lubricant composition according to claim 1, and a refrigerant, in which the refrigerant comprises a blend of 2 or more hydrofluorocarbon refrigerants.

Claim 15 (currently amended) A refrigeration system comprising a compressor, a condenser, an expansion device and an evaporator linked to form a loop in which a refrigerant circulates and is successively condensed and evaporated so as to provide a refrigeration effect the refrigerant comprising a hydrofluorocarbon and/or a hydrochlorofluorocarbon refrigerant, and the system further containing a refrigeration lubricant composition as defined in ~~any one of the preceding claims~~ claim 1.

Claim 16 (canceled)

Claim 17 (original) A method of inhibiting the deposition of or removing unwanted residues in a refrigeration system which comprises operating a refrigeration system when charged with a hydrogen-containing refrigerant and a refrigeration lubricant composition as defined in claim 1.

Claim 18 (original) A method according to claim 17 including the steps of operating the refrigeration system containing a refrigerant and a lubricant, adding the anti-deposition component to the system, and operating the system further so as to inhibit deposition or remove deposits of unwanted residues.

PM Claim 19 (new) A refrigeration lubricant composition comprising a synthetic lubricant consisting of a polyol ester and/or a polyalkylene glycol and an amphiphilic anti-deposition component which is an alkyl alkoxyate derived from an alkylene oxide and a moiety derived from a compound having an active hydrogen atom and an oleophilic moiety, an ester of a polyalkylene glycol or a fluorinated polyether.

Claim 20 (new) A refrigeration lubricant composition comprising a synthetic lubricant consisting of a polyol ester and/or a polyalkylene glycol and an amphiphilic anti-deposition component which is a dialkylsulphonsuccinate, a salt thereof, a fluoroaliphatic polymeric ester, a comb graft copolymer of methyl methacrylate/methacrylic acid/methoxy polyethyleneoxide methacrylate, or a solution of an acrylic graft copolymer.